

Photolysis of H_2O_2 in Alkaline Media

SOV/76-33-8-22/39

range of pH 6.0 - 11.2 the photolysis rate of (I) does not depend on the pH. It was found that no ions or ion radicals were formed. The acceleration of the thermal decomposition of (I) (at 40°), which comes about as the OH-ion concentration rises, is considered due to a weakening of the O O peroxide bond (Ref 7) and the acceleration of the thermal radical decomposition of (I). The stabilizing effect of H^+ -ions in the thermal and photochemical (I)-decomposition is explained by the formation of resistant perhydroxonium ions $[H.H_2O_2]^+$. There are 7 references, 3 of which are Soviet.

SUBMITTED: January 10, 1958

Card 2/2

KROTOVA, Nataliya Aleksandrovna; LIKHTMAN, V.I., otv.red.; PURMAL', A.P.
red.izd-vs; POLYAKOVA, T.V., tekhn.red.

[Gluing and adhesion] O skleivani i prilipani. Moskva, Izd-vo
Akad.nauk SSSR, 1960. 167 p. (MIRA 14:4)
(Adhesion) (Gluing)

86049

S/020/60/135/003/035/039
B004/B060

1043, 1136, 1151

24.7700

AUTHORS:

Kachanova, Zh. P., Voyevodskiy, V. V., Corresponding
Member of the AS USSR, and Purnali, A. P.

TITLE:

Electrical Conductivity of MnO₂¹ Semiconductors¹ in the
Course of CO Oxidation²

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 3,
pp. 648 - 650

TEXT: The authors attempted to find out whether the electron properties of a semiconductor catalyst undergo any changes during reaction processes. The study was conducted on the catalysis of CO oxidation by means of MnO₂. A continuous-operation apparatus was used for the purpose. The resulting CO₂ was frozen out, and the electrical conductivity of MnO₂ was measured during the process of catalysis. The measurement of the Hall effect and thermo-emf made by T. I. Kolomenskaya at the Fizicheskii institut AN SSSR (Institute of Physics of the AS USSR) showed that MnO₂ is an n-type semiconductor. Two stages were distinguished in the training of the catalyst. The catalytic activity is low at the beginning, but

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S/189/61/000/001/001/002
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11.5100

AUTHOR: Purmal', A. P. and Frost, A. V. (Deceased)

TITLE: Dissociation energy of OH

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 2, khimiya
no. 1, 1961, 25 - 33

TEXT: The importance of the hydroxyl group for oxidations requires the precise knowledge of its dissociation energy. The values for ΔH of the reaction $H_2O \rightleftharpoons 1/2 H_2 + OH$ determined by O. Oldenberg and R. I. Dwyer

(Ref. 2: J. Chem. Phys., 12. 351, 1944) differed by 4000 cal from the values obtained by B. Lewis and G. Elbe (Ref. 3: J. Chem. Phys., 3, 63, 1935). The authors measured the hydroxyl concentration in water-oxygen mixtures at various temperatures in order to obtain more precise values of $E_D(OH)$. The spectroscopic line absorption method worked out by

V. N. Kondrat'yev served for the determination of relative hydroxyl concentrations. A discharge tube with 300 watt and 150 ma served as source of light. Water-hydrogen mixtures differing according to the

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Dissociation energy of OH

thermostat temperature came from a diffuser with thermostat via a glass tube heated up to 150°C at a rate of 2-6 l/hr into an absorption tube of cast heatproof and gastight porcelain of 1 m length (30 mm in diameter) (reaction temperature = 1350°C; on overheating = 1450°C). A furnace RO-05 of the Siemens Plania Werke was used. The temperature was kept constant at 1250°C ± 1°C by means of a thermoregulator and measured in the absorption tube by Pt-PtRh-thermocouple. Furthermore were used: the automatic quartz glass spectograph KC -55 (KS-55), dispersion in the range of 3000 Å: 4.6 Å/mm, resolving power in the range of 3000 Å: 22000, effective relative aperture for λ = 3000 Å: 1/38, apertural width for recording: 0.025 - 0.03 mm, photographic plates "Spektral'nye nikfi", type II, III, and the recording Zeiss microdensitometer. The temperature dependence of the absorption coefficients (Table 2) of individual lines of the bands OH 3064 Å (O', O") for optimal mixtures (2/3 H₂O + 1/3 O₂) was investigated according to V. N. Kondrat'yev. The thermal effect of the reaction 2 H₂O + O₂ ⇌ 4 OH is the following one:

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Dissociation energy of OH

$$\Delta H_T = \left[(4RT_1T_2)/(T_1 - T_2) \right] \ln(\overline{\mu l_1}/\overline{\mu l_2}) \cdot \left[\int_0^1 \gamma(I'', T_2) \right] / \left[\int_0^1 \gamma(I'', T_1) \right]$$

$\overline{\mu l_1}$ and $\overline{\mu l_2}$ is the effective absorption on a given wave length through the whole gas layer. The following spectroscopic constants were used:
 $A_0 = -140.25 \text{ cm}^{-1}$, $B_1^* = 16.6 \text{ cm}^{-1}$, $B_2^* = 20.57 \text{ cm}^{-1}$, $D_1^* = 0.0129 \text{ cm}^{-1}$,
 $D_2^* = 0.0237 \text{ cm}^{-1}$, $\omega = 3734.9 \text{ cm}^{-1}$, $\Omega = 3/2$. The calculation of the change in the absorption line width was carried out according to (Ref. 16: G. Dejardin et al.: cahiers phys. 46,3,1953), that of the change of P_{OH} according to the term $\exp \left\{ -[\Delta H_T(T-T_1)]/(4RT \cdot T_1) \right\}$, T being the furnace temperature and T_1 temperature in the given point of the absorption layer. On the strength of the data of light absorption ($Q_1 \ 9/2$, $Q_1 \ 13/2$, $R_2 \ 5/2$, $R_2 \ 7/2$) of the bands $3064 \text{ \AA}$ ($0''$, $0'$) ΔH was found to be $148 \pm 2 \text{ kcal}$

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Dissociation energy of OH

(Table 3). Weaker lines: Q_2^1 9/2 (2824.375 Å), Q_2^1 11/2 (2826.654 Å), Q_2^1 17/2 (2835.511 Å), Q_1^1 13/2 (2833.822 Å) of the bands 2811 Å (1', 0'') had to be studied in order to carry out measurements at higher temperatures, i. e. at higher OH concentrations, and to avoid inaccuracies. Greater line intensities at optimal water-oxygen mixture were obtained here only above 1400°K. In order to avoid the temperature error, the temperature measuring range was extended. Temperatures were determined according to O. Oldenberg, at which different $H_2O + O_2$ mixtures ($v = [2 \cdot P_{H_2O} / (P_{H_2O} + 2P_{O_2})] \leq 1$)

displayed the same light absorption. The lines Q_1 9/2 and Q_1 13/2 of the bands 3064 Å of mixtures with $v = 1$ and $v = 0.03504$ were compared. ΔH_T was found to be 147.9 ± 2.3 kcal according to Table 5. The mean value of all three determinations was $\Delta H_T = 147.7 \pm 3$ kcal, in contrast to the value of 157.5 ± 2.6 kcal determined by O. Oldenberg and R. I. Dwyer. These scientists did perhaps not take into account the change in the

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Dissociation energy of OH

"specific weight" of the external temperature zone of the furnace. B. Lewis and G. Elbe obtained in the study of a H_2 , O_2 , He mixture low values by thermal losses. $E_D(OH) = 102.8 \pm 0.8$ kcal was obtained for the dissociation energy from the authors' values. The values obtained by J. R. Bates, T. Z. Tanaka, Koana, and G. A. Hornbeck by extrapolation of the oscillating level energy of the OH molecule are inaccurate. A. G. Geidon (Ref. 25: Dissociation Energy and Spectra of Diatomic Molecules 2d. ed. London 1952) gave for $E_D(OH) = 103 \pm 4.5$ kcal/mole. R. F. Barrow obtained the value $E_D(OH) = 101.36 \pm 0.3$ kcal/mole from the study of the bands of the system $B^2\Sigma^+ - A^2\Sigma^+$ in the hydroxyl spectrum. V. A. Medvedev, V. V. Korobov and V. F. Baybuz determined by means of adiabatic explosion of moistened water-hydrogen mixtures at relatively low thermal losses: $E_D(OH) = 102.2 \pm 1$ kcal/mole. The authors used

$$\mu_0 = \frac{(\mu l)_T K (2I'' + 1)}{-i(P_{OH})_T \int_0^{\infty} \frac{(2I'' + 1) \exp\left\{-\frac{hc}{kT} F(I'')\right\} \exp\left\{-\frac{\Delta H_T(T-T_i)}{4RT T_i}\right\} dI''}{Q_{DP} \cdot Q_{KAL}}} (3) \quad (Q_{rot} = Q_{rot}, Q_{KAL} = Q_{cal})$$

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Dissociation energy of OH

for the calculation of the light absorption coefficient of an OH molecule at the wave length λ . The absolute OH concentration can be calculated by M_0 . The factors of the intensity i for the lines of the 3064 Å - bands are given in Ref. 1: (V. N. Kondrat'yev: Svobodnyy gidroksil, (The free hydroxyl), CONTI M. - L. 1939). The i -values for the lines of the bands 2811 Å were calculated according to Ref. 28 (L. T. Earls: Phys. Rev., 48, 423, 1935). The $(P_{OH})_T$ -values were calculated from the corresponding equilibrium constants of $H_2O + 1/2 O_2 \rightleftharpoons 2 OH$. The calculated i_0 -values are given in Table 6. The authors thank V. M. Gryaznov for cooperation. There are 6 tables, and 28 references: 4 Soviet-bloc and 24 non-Soviet-bloc. The references to English-language publications read as follows: Ref. 4: Edse R. Third Sympos. on Combust. Baltimore, 1949, p. 611. Ref. 13: Hornbeck, G. A., Fifth Sympos. on Combust., 1955, p. 790. Ref. 19: Dejardin G., Janin J., Bull. Ann. Phys. Soc., 1, 43, 1957.

ASSOCIATION: Moskovskiy universitet, Kafedra fizicheskoy khimii
(Moscow University, Department of Physical Chemistry)

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23558

Dissociation energy of OH

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SUBMITTED: February 22, 1958

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PURMAL', A.P. Radio khim.nauk

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Vest. AN SSSR 31 no.12:98-100 D '61. (MIRA 14:12)
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PURMAL', A.P.

Catalase-active systems. Part 1. Zhur.fiz.khim. 36 no.10:
2290-2293 0 '62. (MIRA 17:4)

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VOROB'YEVA, T.P.; VOYEVODSKIY, V.V.; PURMAL', A.P.

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36 no.11:2532-2536 N'62. (MIRA 17:5)

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VOROB'YEVA, T. P.; PURMAL', A. P.

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Zhur. fiz. khim. 36 no.12:2780-2782 D '62. (MIRA 16:1)

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(Catalase) (Copper compounds)
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PURMAL', Anatoliy Pavlovich; SHUSTOVA, I.B., red.; ATROSHCHENKO,
~~L.I., "Ekhn." red.~~

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(MIRA 16:8)

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1. Institut khimicheskoy fiziki AN SSSR.
(Copper compounds) (Ammonia)
(Electron paramagnetic resonance and relaxation)

KACHANOVA, Zh.P.; PURMAL', A.P.

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200-201 Ja'64. (MIRA 17:2)

1. Institut khimicheskoy fiziki AN SSSR.

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Study of catalase-active systems. Part 6. Zhur. fiz. khim. 38
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1. Akademiya nauk SSSR, Institut khimicheskoy fiziki.

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1. Institut khimicheskoy fiziki AN SSSR.

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POZDAN, M.Ya. (Moscow, U.S.S.R.)

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TELEGDY-KOVATS, Laszlo, a tudomanyok doktora; HARDY, Gyula,
kandidatus; GERECS, Arpad, akademikus; FOLDI, Zoltan; WOLKOBEL,
Zoltan; TUDOS, Ferenc, kandidatus; PURMAN, Jenő; KRAUSZ, Imre,
kandidatus; ERDEY, Laszlo, akademikus; SCHAY, Geza, akademikus

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Hungarian Academy of Sciences. Kem tud kozl 18 no.3:343-394
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1. Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak titkara,
es "A Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak
Kozlemenyei" szerkesztoje (for Erdey-Gruz). 2. Akademiai levelezo
tag (for Lengyel and Foldi). 3. "A Magyar Tudomanyos Akademia
Kemiai Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi
tagja (for Bruckner, Erdey, Foldi, Gerecs, Hardy, Lengyel, Schay,
Tudos).

ERDEY-GRUZ, Tibor, akadémikus; DABRONAKI, Gyula, dr.; FODOR, György, dr.;
KOCZOR, István; KORANYI, György, a kémiai tudományok doktora;
LORINC Imre, a kémiai tudományok kandidátusa; SZZEPES, Gábor,
dr.; PILLICH, Lajos, főmérnök; PURMAN, Jenő; SZANTAY, Csaba,
akadémiai tudományok kandidátusa; SZANTO, István, dr., a kémiai
tudományok kandidátusa; TOROK, Gábor, a kémiai tudományok doktora

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198 '63.

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2. Elelmezésügyi miniszter első helyettese (for Dabronaki).
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Kutató Intézet igazgatója (for Koranyi). 6. Nehezipari miniszter
helyettese (for Lorinc). 7. Kőbányai Gyógyszerárugyár (for
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A great Opportunity. p. 314.

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Exchange of technical experience. Leg. prom. 12 No. 9, 1952.

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imeni Lomonosova, Moskva.

SLAIDINS, Janis; TRILISKIS, Abrams; PURNE, Silvija; ENDZELINA, M.,
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[Transfusion of blood and blood substitutes] Asins un asins
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1961. 164 p. (MIRA 15:3)
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1. Respublikanskaya klinicheskaya bol'nitsa imeni P.I.Stradynya i
Respublikanskaya stantsiya perelivaniya krovi.

(ANEMIA)

(ANTIGENS AND ANTIBODIES)

ZAYKIN, Yakov Khonovich, doktor tekhn. nauk; FURNIK, Mikhail
Abramovich, inzh.; FILIN, A.G., red.

[Operational testing of the rolling stock of automotive
transportation] Ekspluatatsionnye ispytaniia podvizhnogo
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1965. 55 p. (MIRA 18:10)

S/196/62/000/021/004/007
E194/E135

54-10
AUTHORS: Purol, Henryk, and Appelt, Kazimierz
TITLE: A method of determining the depolarising properties of
activated charcoal and organic depolarisers and
equipment for carrying out the method
PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i enertika,
no.21, 1962, 12, abstract 21 A 72 P. (Polish pat.
cl. 21b, 6/02, no.45371, February 20, 1962)
TEXT: The depolarising properties of activated charcoal or
organic depolarisers are determined by discharge through a test
cell in which the depolariser is maintained under constant
pressure. The duration of discharge of a certain current to a
certain voltage is a measure of the depolarising capacity of the
given depolariser. The test cell consists of a carbon cathode,
depolariser, filter paper and zinc anode. The cell is located in
a tube of electrical insulating material and the depolariser is
maintained under constant pressure by a spring fixed in the upper
part of the tube.

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A method of determining the ...

S/196/62/000/021/004/007
E194/E135

ASSOCIATION: Centralne Laboratorium Akumulatorów i Ogniw.
(Central Laboratory of Accumulators and Cells)

[Abstractor's note: Complete translation.]

Card 2/2

MESKAUSKAS, K.; PURONAS, V.; POVILIUNAS, A.; MALISAUSKAS, V.;
JANUSKEVICIUS, V.; BERKAMNAS, E.; KRUTULYS, V., spets. red.;
POLUIKIS, J., spets. red.; CIMBOLENKA, P., red.; ANAITIS, J.,
tekh. red.

[Twenty years of the Soviet Lithuanian national economy] 20
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1.Redaktor gazety "Zapadnaya trassa".
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PUROVSKAYA, Ye.K.

Pseudolues papulosa in a syphilitic. Sbor.nauch.rab.Bel.nauch-
issl.kozhno-ven.inst. 4:351-352 '54 (MIRA 11:7)
(GENERATIVE ORGANS, FEMALE--DISEASES)
(SYPHILIS)

PUROVSKAYA, Ye.K., PETRUSHA, I.S., BONDAROVICH, A.G.

Chapin-Lipschitz ulcer acutum. Sbor.nauch.rab.Bel.nauch.-issl.
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1. Department of Organic chemistry, School of Education, Gdansk.

Author: Wilson, J. One-way "Biting" behavior. Behav.
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N. G. IZRAILOVICH. *Soviet. Vol. 2, no. 2, 1965.*

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МУЛЮВ, П.

Paylov, P. Attaching a frame saw to the cotton ginning machine. p. 47.
LIT. ILL. SVET, Sofia, Vol. 4, no. 3, 1955.

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1. General Information. The following information is being furnished to you for your information only. It is not to be used for any other purpose. The information is being furnished to you for your information only. It is not to be used for any other purpose. The information is being furnished to you for your information only. It is not to be used for any other purpose.

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'63.

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OBRTTEL, Milan; PURS, Jiri; SPIDLA, Josef

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PJRS, Jiri

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1. Vyzkumny ustav obilnarsky, Kromeriz.

OBRTTEL, Milan; PURS, Jiri

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PURSHEV, P.I.

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crystalline lens made of plastic. Uch.zap. GMI glaz.bol.
no.8:171-172'63. (MIRA 16:9)

1. Filial Gosudarstvennogo nauchno-issledovatel'skogo insti-
tuta glaznykh bolezney imeni Gel'mgol'tsa.
(CRYSTALLINE LENS) (EYE--SURGERY)

-----PURSHEV, F.I., mayor med. sluzhby

Studying contrast sensitivity in naval personnel. Voen.med. zhur.
no.12:58-61 D'58 (MIRA 12:1)
(VISUAL DISCRIMINATION)

1 11752-86 PMS(1)/7 IV

ACC NR: AR6022386 (N) SOURCE CODE: UR/0397/65/000/024/0055/0056

AUTHOR: Lenkevich, M. M.; Purshev, F. I.; Maychuk, Yu. F.; Galkina, L. G.

TITLE: Polyvinyl alcohol -- a new drug base for antibiotics 6 22 c

SOURCE: Ref. zh. Farmakologiya. Toksikologiya, Abs. 24.54.431

REF SOURCE: Sb. Materialy Nauchn. konferentsii, posvyashch. 30-letiyu Fil. Gos. n.-i. in-ta glazn. bolezney, 1963. Cheboksary, 1965, 69-75

TOPIC TAGS: polyvinyl alcohol, tetracycline, erythromycin, antibiotic

ABSTRACT: In preparing antibiotic solutions with a polyvinyl alcohol base, antibiotics were added on the basis of 10,000 units/ml to a 10% polyvinyl alcohol solution. It was established that antibiotic activity in a polyvinyl alcohol solution lasted 2 to 4 times longer than in aqueous solutions. Polyvinyl alcohol solutions did not cause irritations of eye tissues. Following the administration of tetracycline hydrochloride (aqueous solution and polyvinyl alcohol solution) in experiments on 44 rabbits, a higher content of the antibiotic was found in the conjunctival sac with a polyvinyl alcohol solution than with an aqueous solution or antibiotic in the form of an ointment. Similar

Card 1/2 UDC: 615.779.9

I. 11252-56

ACC NR: AR6022386

results were established in determining tetracycline hydrochloride levels in conjunctival cavity lavages and conjunctival cell scrapings; and, also with the use of other antibiotic solutions (erythromycin ascorbate and erythromycin). Treatment (1% solution of tetracycline hydrochloride embedded 2 to 3 times daily) of 104 trachoma patients (adults and children) produced good results. Mean number of bed days was 57.1%. Treatment (1% polyvinyl alcohol solution of erythromycin was imbedded once daily) for 6 mos. prevented any recurrence of trachoma cases during a one year observation period. N. S. Translation of abstract.

SUB CODE: 06

Card

2/24NT

PURSKI, J. SKWARCZ, A.

Lipoma of the peroneal tendon sheath. Chir. narząd. ruchu
ortop. pol. 28 no. 6: 637-638 '63.

1. Z Kliniki Ortopedycznej AM w Lublinie. Kierownik: doc. dr.
St. Piatkowski.

*

GRZYBOWSKI, Emil; KOZAK, Jozef; PURSKI, Jerzy

Results of surgical therapy of congenital dislocation of the hip.
Chir. narz. ruchu 13 no.2:105-111 1958.

1. Z Kliniki Ortopedycznej A. M. w Lublinie Kierownik: doc. dr St.
Piatkowski. Adres Autorow: Lublin, ul. Staszica 11, Klinike Ortopedyczna.
(HIP, dislocations,
congen., surg. ther. & results (Pol))

GRZYBOWSKI, Emil; PURSKI, Jerzy

Results of conservative therapy of congenital hip dislocation.
Chir.narz.ruchu 24 no.4:319-324 '59.

1. Z Kliniki Ortopedycznej A.M. w Lublinie Kierownik: doc.
dr S.Piątkowski.
(HIP fract & disloc)

ZATONSKI, Emil; PURSKI, Jerzy

Congenital absence of the pectoralis major muscle. Chir.
narzad. ruchu ortop. pol. 29 no.1:85-90'64

1. Z Kliniki Ortopedycznej AM w Lublinie; kierownik: doc.
dr. med. S. Piatkowski.

*

LOCKE , William Nash ,; MOLOSHNAYA, T.N.,[translator], PURTO, V.A.,[translator],;
KUZNETSOV, P. S., red.

[Machine translation; a collection of articles] Mashinnyi perevod;
sbornik statei. M, Izd-vo inostrannoi lit-ry, 1957. 314 p. [Translated
from the English]. (MIRA 11:11)

(Machine translating)
(Translating machines)

10.11.1968.

radiation of molecules in different external fields.
Trudy vuzch. inst. svyazi no. 34:31-42 '68. (MIRA 17:9)

L. Leningradskiy elektromekhanicheskii institut svyazi im. prof.
M.A. Belykh-Bryukhina.

L 18961-65 EWG(j)/EWA(k)/FBD/EWT(1)/EEC(k)-2/EEC(t)/1/EEC(b)-2/EWP(k)/EWA(m)-2/
EWA(h) Pn-L/Po-L/Pf-L/Pi-L/Pe-L/Pl-L AFETR/RAEM(a)/IJP(c) WG
ACCESSION NR: AR5000805 S/0058/64/000/010/H011/H011

SOURCE: Ref. zh. Fizika. Abs. 10Zh82

AUTHOR: Purto, V. M.

TITLE: Influence of the waveguide system on the oscillation frequency of a maser *12*
B

CITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 19, 1964, 74-87

TOPIC TAGS: maser element, maser frequency, maser action

TRANSLATION: Questions connected with the influence of the waveguide section of a maser on its oscillation frequency and stability are considered; maser oscillation equations are formulated and their solutions are presented. A procedure for observing the parameters of the resonator and of the waveguide, entering in the formula for

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L 18961-65

ACCESSION NR: AR5000805

the generation frequency, is discussed. A method is proposed for tuning the maser with the aid of double modulation of the parameters.

SUB CODE: EC

ENCL: 00

Card 2/2

GOFMAN, Yu.M., 1911; BURTOV, B.F., 1928.

Breaking of the rotor blades of the VE-100 : high-pressure turbine.
Energetik no.411-12 S '64. (MIRA 17:10)

PURTOV, T.

Toward new objectives. Rech. transp. 22 no.3:10-11 Mr '63. (MIRA 16:4)

1. Zamestitel' nachal'nika Pechorskogo parokhodstva.
(Inland water transportation)

PURTOV Ye.S.
PURTOV, Ye.S., inzh.-polkovnik

A good start ("Master of the airplane" by P.A. Tokarev.
Reviewed by E.S. PurtoV). Vest. Vozd. Fl. 40 no.9:86-87 (MIRA 11:1)
S '57.
(Airplanes--Maintenance and repair)
(Tokarev, P. A.)

KOZLOV, I.G. [deceased]; YASTREBOVA, T.A.; PURTOVA, S.I.; SEREBRYAKOVA, Z.D.;
KIRINA, T.I., nauchnyy red.; CHIZHOV, A.A., vedushchiy red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Key wells of the U.S.S.R.; Khanty-Mansi key well (Tyumen' Province)]
Opornye skvazhiny SSSR; Khanty-Mansiiskaia opornaia skvazhina
(Tiumenskaia oblast'). Leningrad, Gos.nauchno-tekhn.izd-vo
neft.i gorno-toplivnoi lit-ry Leningr.otd-nie, 1961. 74 p.
(Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii
geologorazvedochnyi institut, Trudy, no.176). (MIRA 15:4)
(Khanty-Mansi region--Petroleum geology)
(Khanty-Mansi region--Gas, Natural--Geology)

PURTSSELADZE, A.O.; TOKMAN, M.Ya.; ALEKSEYEV, V.B., kand.tekhn.nauk;
KOBYAK, S.S., inzh.; KUVSHINNIKOVA, R.I., inzh.

Using electronic computers in planning the carrying-out
of earthwork. Transp. stroi. 16 no.1:6-8 Ja '66. (MIRA 1961)

1. Upravlyayushchiy trestom Sredazstroyemkhanizatsiya (for
Purtseladze). 2. Zamestitel' nachal'nika tekhnicheskogo otdela
tresta Sredazstroyemkhanizatsiya (for Tokman).

S/058/62/000/006/032/136
AG61/A101

AUTHORS: Purtseladze, I. M., Khitarishvili, L. S., Chikovanl, R. I.,
Shkol'nik, A. L.

TITLE: A study of the optical properties of molybdenum trioxide MoO_3

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 32, abstract 6V214
("Tr. Tbilissk. un-ta", 1960, v. 86, 439 - 448, English summary)

TEXT: A quantitative investigation has been conducted on absorption and reflection spectra of single crystals and polycrystalline MoO_3 films at temperatures between 90 and 465°K. The spectral coefficient of MoO_3 self-absorption displays a steep rise at $\sim 350 \text{ m}\mu$. This absorption edge is displaced, in films, toward the longwave side as compared with single crystals, and shifts toward the side of long waves during heating. In crystals subjected to X- and γ -irradiation and neutron bombardment in the reactor, the spectrum displays an additional absorption band at $350 \text{ m}\mu$, which is unstable and decays under the action of light, and also a stable band at $\sim 900 \text{ m}\mu$ (with neutron bombardment). The $350\text{-m}\mu$ band refers to a center consisting of an oxygen vacancy by which an electron has been

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S/058/62/000/006/032/136
AC61/A101

A study of the...

trapped, while the 900-m μ band is due to large aggregates of lattice imperfections.

[Abstractor's note: Complete translation]

Card 2/2

S/058/62/000/006/093/136
A057/A101

AUTHORS: Chikovani, R. I., Shkol'nik, A. L., Purtseladze, I. M.,
Khitarishvili, L. S.

TITLE: On the photoconductivity of single crystals of molybdenum
trioxide MoO_3

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 38, abstract 6E306
("Tr. Tbilissk. un-ta", 1960, 86, 449 - 458; English summary)

TEXT: The photoconductivity of MoO_3 single crystals, obtained by a
single, or multiple distillation of MoO_3 powder, and also of films of
this compound, obtained by evaporation in vacuum on a quartz backing, was
investigated. The experiments were carried out with non-irradiated
crystals, and also with crystals irradiated by X-rays, gamma-rays, and
neutrons. The region of photosensitivity of the crystals lies below $360\text{m}\mu$
and coincides with the region of strong absorption. The photosensitivity
has a maximum at room temperature and is at the maximum in the average
20 - 30%. At temperatures above 70°C the photosensitivity disappears

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3/058/62/000/006/093/136
A057/A101

On the photosensitivity of ...

irreversibly. With time, a recovery of the photosensitivity takes place, which can be accelerated by annealing. Irradiation of the crystals with X-rays does not change their photosensitivity. Irradiation with gamma-rays effects a small increase of photosensitivity, and irradiation by neutrons - a loss. The photosensitivity is absent in thin films. The obtained results are explained by the presence of oxygen vacancies in the crystals, which are able to capture one or two electrons.

P. Konorov

[Abstracter's note: Complete translation]

Card 2/2

PURTSRADZE, Kh.G.

Nitric acid treatment of carbonate manganese ores of the
Chiatura Deposits. Trudy Inst.prikl.khim.i elektrokhim.AN
Gruz.SSR 3:143-161 '62. (MIRA 16:1)
(Chiatura—Manganese ores)

PURTSELADZE, Kh.G.; TOPURIYA, Z.M.; CHKONIYA, T.K.; SHOSHIASHVILI, E.N.

Thermal dissociation of artificial manganese dioxide samples.
Trudy Inst.prikl.khim.i elektrokhim.AN Gruz.SSR 3:163-168 '62.
(MIRA 16:1)

(Manganese oxide—Thermal properties)

PURTSHELADZE, Kh.G.; CHACHANIDZE, G.D.

Preparing pure manganese concentrates from below-standard
Chiatura carbonate manganese ores. Trudy Inst.met. AN Gruz.
SSR 9:221-225 '58. (MIRA 12:8)
(Chiatura--Manganese ores) (Ore dressing)

PURTSELDZE KH. G.

AGLADZE, R.I.; PURTSELDZE, Kh.G.

Preparing depolarizers by the activation of Chiatura pyrolusite
and red manganese [in Georgian with summary in Russian]. Trudy
Inst. met. i gor. dela AN Gruz. SSR 2:61-73 '49. (MIRA 11:1)
(Manganese ores) (Electrochemistry)

PURSHEV F.

EXCERPTA MEDICA Sec.12 Vol.11/9 Ophthalmology Sept 57

1461. PURSHEV F. * Resultaty letcheniya flyktenulioznych zabolzevanii glaz para-aminosalitsilovoi kislotoi. The treatment of phlyctenular diseases of the eye with PAS (Russian text) VESTN. OFTAL. 1956, 6 (41)

Sixty-four patients with phlyctena, of these 24 with superficial and 6 with deep keratitis, were treated with PAS. The treatment was topical; by instillation of drops, 4 to 5 times daily of a 2.8% solution of PAS and tablets per mouth. The majority of the patients were cured within 6 to 12 days. The phlyctena and corneal infiltrates absorbed and the visual acuity was restored to normal. During the 2 yr. of observation, recurrence was much rarer than with other methods of treatment.

Sitchevskaya - New York, N. Y.

1930, P. 1.

Investigation of the Eye Contrast Sensitivity of the Navy Personnel.
VOYENNO-MEDITSINSKIY ZHURNAL (MILITARY MEDICAL JOURNAL), No 12, 1955. p. 58

PURSKI, Jerzy; SKARCZ, Andrzej; ZATONSKI, Emil

Angioma of the anterior tibial muscle. Chir. narz. ruchu 24 no.1:
73-76 1959.

1. Z Kliniki Ortopedycznej A.M. w Lublinie Kierownik: doc. dr St.
Piatkowski. Lublin ul. Staszica 11, Klinika Ortopedyczna.

(ANGIONA, case reports,
tibial musc. (Pol))

(LEG, neoplasms,
angioma of anterior tibial musc. (Pol))

BUKOWSKA, Irena; PURSKI, Jerzy

Traumatic dislocation of the hip in a three-week-old infant.
Chir. narz. ruchu 21 no.3:291-292 1956.

1. Z Oddziału Chirurg. Szpitala Wojewodzkiego w Zielonej Gorze.
Ordyn. dr. A. Bandurski.
 (HIP, dislocation,
 in newborn, traum. (Pol))
 (DISLOCATIONS,
 hip, in newborn, traum. (Pol))

WINER, Benedykt; PURTAL, Krystyna.

Case of periodical disease. Polski tygod. lek. 10 no. 44:1440-1443
31 Oct 55.

1. Z Oddziału Wewnętrznego Szpitala im. dr. K. Jonschera w Łodzi;
ordynator: dr. M. Taube. Łódź, ul. Przedzalniana 75.

(PERIODICITY,
periodic dis., case report)

PURIO, V. A., Cand. In Philo. Sci. and MOLOSHNAYA, T. N.

"Machine Translation from English into Russian" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 3 Oct 56

SOV/44 - 58 - 4 - 3354

Translation from: Referativnyy zhurnal, Matematika, 1958, Nr 4,
p 156 (USSR)

AUTHOR: Purto, V. A. and Moloshnaya, T. N.

TITLE: On the Machine Translation of English into Russian
(O mashinom perevode s angliyskogo yazyka na russkiy)

PERIODICAL: Tr. 3-go Vses. matem. s"yezda., Nr 1, Moscow,
AN SSSR 1956, p 196

ABSTRACT: Thesis of a report before the third All-Union Mathematical Congress. A method of translation is proposed by which definite classes of English and Russian words, typical structures of the English sentence, typical configurations from the given classes of words and the configurations in Russian corresponding to them are given. In translation configurations contained in an English phrase must be replaced by Russian configurations corresponding to them and then the Russian words must

Card 1/2

SOV/44 - 58 - 4 - 3354

be substituted in the derived structure.

O. S. Kulagina

Card 2/2

SHVARTS, A.M.; TRAKHTENGERTS, E.A.; BRUK, B.N.; PURTO, V.A.;
FISHKINA, V.L.

Experience in literal translation of patent literature
from the English language by the "Strela-3" computer.
NTI no.2:42-45 '63. (MIRA 16:11)

PURTO, V. A., REVZIN, I. I., MOLOSHNAYA, T. N., and ROZENTSVEYG, V. Yu.

"Nekotorye Lingvisticheskie Voprosy Mashinnogo Perevoda." (Certain Linguistic Problems in Machine Translation) Voprosy Yazykoznaniiya, No. 1, 1957, p. 107-113.

L 62260-65 EWA(k)/FBD/EWT(1)/EEG(k)-2/T/EEG(b)-2/EMP(k)/EWA(m)-2/EWA(h)
SCTB/IJP(c) WG

ACCESSION NR: AR5004632

S/0274/64/000/011/B082/B082
621.378:621.373

33
B

SOURCE: Ref. zh. Radiotekhn. i elektrosvyaz'. Sv. t., Abs. 11B505

AUTHOR: Purto, V. M. 44

TITLE: Effect of the waveguide system on the frequency of a maser

CITED SOURCE: Tr. uchebn. in-toy svyazi. M-vo svyazi ⁴⁴ SSSR, vyp. 19, 1964, 74-87

TOPIC TAGS: maser, maser frequency, maser frequency stability

TRANSLATION: The effect of the waveguide system on the ^{25, 44} maser frequency stability is analyzed theoretically. An equation of maser oscillations is set up and solved. It is proven that, in order to improve the frequency stability of a maser used as a frequency standard, ferrite valves should be used for decoupling between the maser and the load represented by a detector. A variation of the detector reactance caused by external factors may result in an intolerable variation of the frequency. It is demonstrated that, with a Q-factor of 10^7 , a coupling factor of 0.1, and a detector-reflection-factor modulus of 0.05-0.1, the relative frequency variation is about $10^{-9} \text{ tg } \varphi$ (φ is the phase angle of the reflection factor). A method of

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L 62260-65

ACCESSION NR: AR5004632

maser tuning by double modulation is suggested: (1) a modulation of the radiation line width and (2) a modulation of the load reflection factor. In the second case, the modulation is performed by the bias current of the detector. The maser output signal is then 4 M. After the signal amplification and conversion, the modulation components can be filtered and applied to frequency detectors.

SUB CODE: EC

ENCL: 00

Card 2/2

PURTOV, I.P.; ZAMRIY, A.S.; SHAPOVALOV, I.F.

Nature of the distribution of errors in telephone channels with
discrete signal transmission. Elektrosv' 19 no.6:31-41 Je '65.
(MIRA 18:6)

VOYTENKO, I.P.; GORODNICHIN, N.T.; DEREVIANKO, L.V.; ZAKRASNYANYI,
F.D.; PARSHIN, V.F.; PURTOV, L.P.; SIDOROV, N.T.; SHAPOVALOV,
I.F.; KOMAROVA, Ye.V., red.; ROMANOVA, S.F., tekhn.red.

[Telegraph devices using noncontact switches] Telegrafnye
ustroistva na beskontaktnykh perekliuchateliakh. Moskva, Izd-
vo "Sviaz'," 1964. 295 p. (MIRA 17:3)

L 39887-66 ENT(d)/FSS-2 GE-2

SOURCE CODE: UR/0106/65/000/006/0031/0041

ACC NR: AP6016672

AUTHOR: Purtov, L. P.; Zamriy, A. S.; Shapovalov, I. F.

ORG: none

TITLE: Characteristic of error distributions in telephone channels during discrete signal transmission

SOURCE: Elektrosvyaz', no. 6, 1965, 31-41

TOPIC TAGS: telephone, radio relay, signal distortion equipment

ABSTRACT: After outlining the procedures for communication channel testing, this comprehensive article discusses the faithfulness of discrete information transmission through telephone cable and stationary radio-relay channels, the error distributions in time, the distribution of error groups, the combination distortion probability distribution, and the distribution of the quantity of errors within distorted combinations. Results show that 1) errors are distributed and tend, as a rule, to appear in groups; 2) the average reception error probability is a variable quantity and cannot be used for a reliable estimate of the transmission methods and of the correcting codes; 3) within distorted combinations the errors in cables and radio-relay channels are distributed approximately in the same manner (in spite of different values for the combination distortion probabilities); 4) during the phase difference operation the prevalent number of errors is even; and 5) interventions by the operating personnel are one of the reasons for the decrease in

faithfulness of discrete information transmission. V. I. Shlyapoberskiy, V. Ye.

Klinger, G. V. Simonova, S. O. Dzheravan, A. F. Zubritskaya, S. A. Kuz'mina,

V. G. Bulin, E. P. Perfil'ev, N. I. Vovchenko, Z. M. Pronina and I. M. Cherkasov also participated in the organization and carrying out the tests of the communication channels. Orig. art. has: 11 figures and 5 tables. [PRS]

SUB CODE: 17 / SUBM DATE: 16Oct64 / ORIG DOC: 621.391.8:3: 621.395.12

Card 1/1

PURTOV, P.N.

Unsolved problems of state farm production. Zemledelie 4 no.8:102-
104 Ag '56. (MLRA 10:1)

1. Glavnyy agronom sovkhoza "Lesnoy, " Omskoy oblasti.
(State farms)

PURTOV, V.

All machinations of French colonizers will be of no avail.
Komm.Vooruzh.Sil 1 no.4:82-84 F '61. (MIRA 14:8)
(France--Politics and government) (Algeria--Politics and government)

Parted, Ye. S.

86-9-32/36

AUTHOR: Purtov, Ye. S., Eng. Col.

TITLE: A Good Start (Khorosheye nachalo)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Vol. 40, Nr 9,
pp. 86-87 (USSR)

ABSTRACT: A critical review of the scientific-popular 120 page book, published in 1957 by the Military Publishing House, Moscow, entitled "The Master of the Aircraft" (Khozyain samoleta), by P. A. Tokarev, an aeronautical engineer. The book deals with the trade of the aircraft technician or mechanic, describing mainly his role in the various stages of the pre-flight preparation of the aircraft. The reviewer found greatly interesting the part with passages relative to the work carried out by the technicians and mechanics in the front zone during the Great Patriotic War, such as that which enabled a downed aircraft to take off, after doing a heroic emergency repair in no man's land, and fly to safety. The book concentrates too exclusively,

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A Good Start. (Cont.)

86-9-32/36

states the reviewer, on the poor work which the technicians or mechanics should not do. Often, it deals with long-past events. It also contains some inaccuracies. The Soviet popular literature experiences an urgent need of publications on the laborious, creative endeavors of the aeronautical mechanics, technicians, and engineers; the reviewed book is a happy start in the right direction.

AVAILABLE: Library of Congress

Card 2/2

SOV/109-3-11-11/13

AUTHORS: Venerovskiy, D.N. and Purto, V.M.

TITLE: On the Problem of ~~Generation of Milli~~microsecond Pulses
By Means of Travelling Wave Tubes (K voprosu vzbuzhdeniya
nanosekundnykh impul'sov pri pomoshchi generatornoy IBV)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 11,
pp 1404 - 1405 (USSR)

ABSTRACT: The possibility of generating very short pulses by means
of travelling wave tubes with an internal feedback is
indirectly indicated by the experimental data contained in
a number of published works (Refs 2,3,4). From those
data, it can be concluded that it is possible to generate
oscillations of various types and that to each type of
oscillation corresponds a definite interval of the
accelerating potential. The possibility of obtaining
a milli-microsecond pulse is indicated in the graph of
Figure 1 which gives the wavelength as a function of the
accelerating voltage; if the voltage is changed stepwise
to a value higher than V_2 , the tube will oscillate during

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On the Problem of Generation of Milli-microsecond Pulses by Means
of Travelling Wave Tubes

an interval Δt .

There are 2 figures and 6 references, 2 of which are
Soviet, 2 English, 1 French and 1 German.

SUBMITTED: November 27, 1957

Card 2/2